

## ABSTRACT OF THE DISCLOSURE

A system and method for enabling multithreading in a  
embedded processor, invoking zero-time context switching in a  
5 multithreading environment, scheduling multiple threads to permit  
numerous hard-real time and non-real time priority levels,  
fetching data and instructions from multiple memory blocks in a  
multithreading environment, and enabling a particular thread to  
modify the multiple states of the multiple threads in the  
10 processor core.

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